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Update: US Army Corps of Engineers Dam and Levee Safety Programs

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Topics

- Dam Safety Program Update
  - Methodology
  - Findings from Risk Analyses
  - Intersections with P CoP
- Levee Safety Program
  - Current Appropriations
  - Proposed Legislation
  - Challenges

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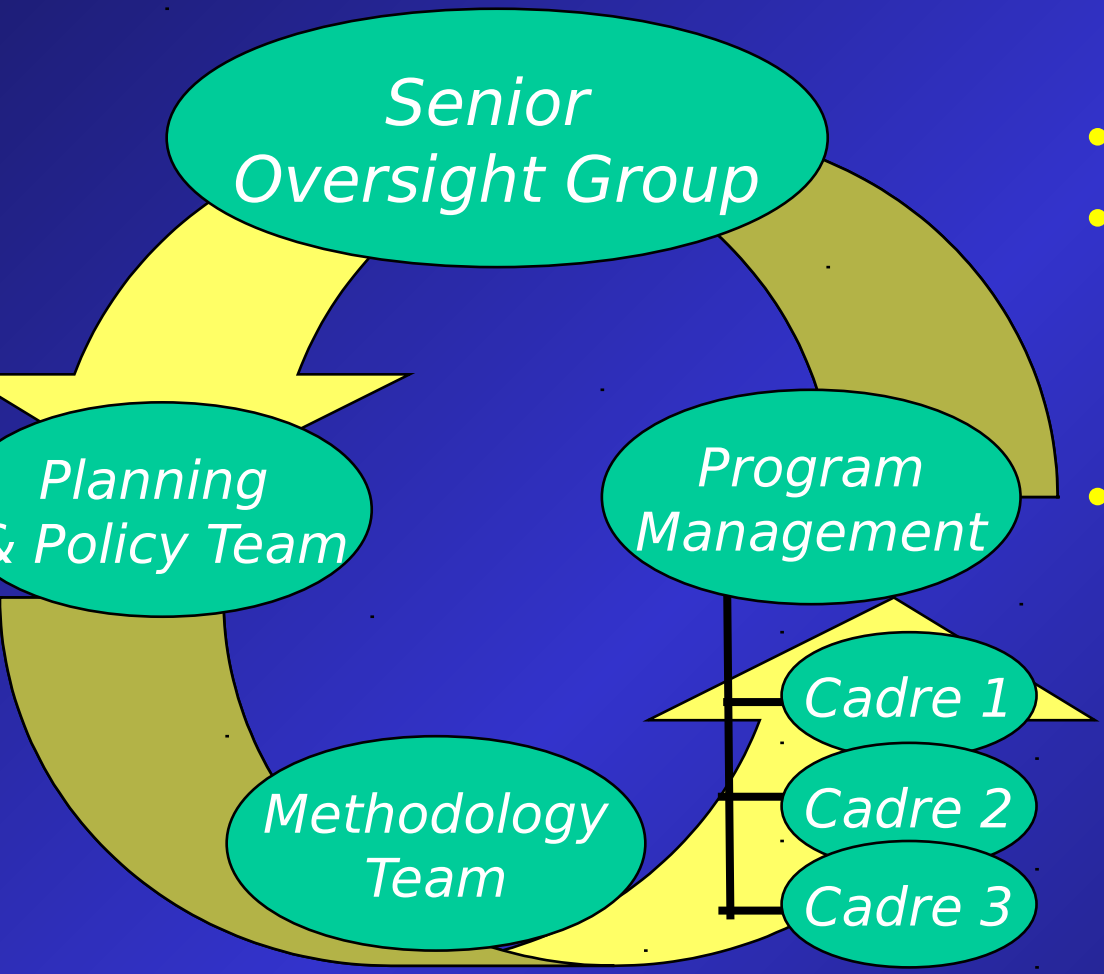
Risk Methods: Where We're Going…



- Risk & Reliability Informed
- National Portfolio
- Functionally, Vertically, and Regionally Integrated
- Influences: Studies, Fixes, Non-Structural Measures, & Routine Activities

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Methodology

Phase 1
Screening for Portfolio Risk Assessment (SPRA)

- Focus on "Worst First"

- 3 Cadres Deployed

- FY05: 10% Portfolio

- FY06: Additional 10%

-Yields Relati
Ranking

Phase 2
Portfolio Risk Assessment (PRA)

- More Detailed, Rigorous

- Under Development

- Yields Explicit Risks

- Feeds Site Specific RA

Phase 3
Site Specific Risk Assessment

- Done on Limited Basis

- To be developed FY07

- Optimizes Remedial Alternative based on risk

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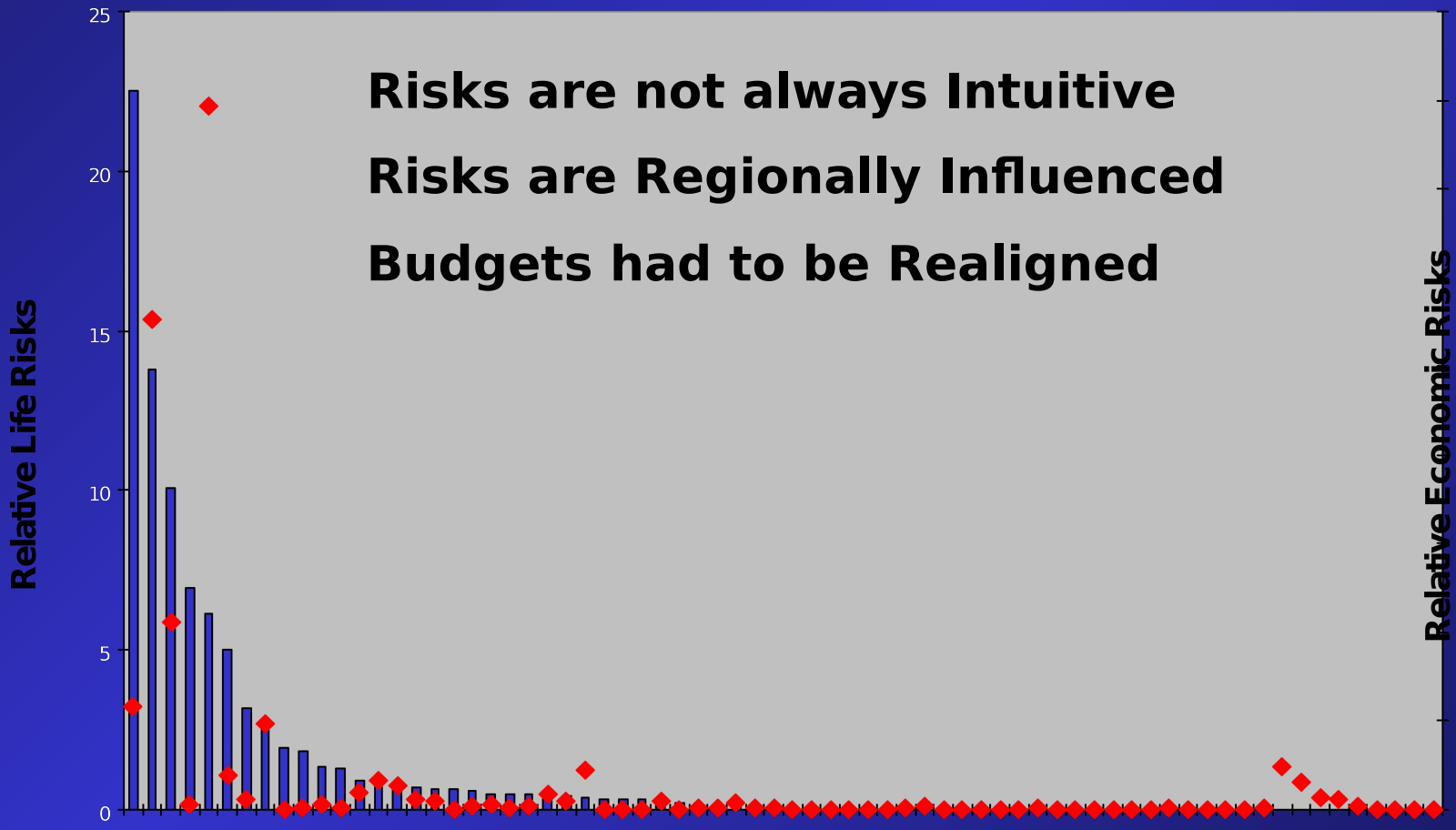
Results of FY 05 Risk Analyses

Comparison of Life and Economic Relative Risks
Initial 10% Portfolio: "Worst First"



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Dam Safety-Planning Intersections

- Risk Informed Management
  - Trade offs Among & Between Business Lines
  - Local/Regional to National Priorities
  - Interim Measures
- Tolerable Risk Guidelines
- Quantifiable Environmental Risks
- Dam Safety Studies to CG Account in FY08
- Consequence Data Needs Updating!

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Levee Safety Program

- $30M in FY06 FCCE
- $20M in FY07 GI
- Major Activities:
  - Inventory
  - Assessment Methodology
  - Assessments/Inspections
  - National Levee Safety Program Manager

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Levee Inventory

- Will be a Geospatial Database
- Phased Approach
  - Phase 1 will input Administrative Field of projects in Corps Program
  - Phase 2 will beta test detailed data entry on 5 Districts
  - Phase 3 will be all other Districts detailed entry and Admin fields on other Federal and local levees

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LEVEE INVENTORY

- Currently
  - Initial Survey of admin Data fields to Corps Districts
  - Database framework being developed
  - Coordinating with FEMA/State ongoing
- Next Steps
  - Add additional data fields for Technical assessments
  - Start detailed Database population
- Planning Involvement
  - Data fields for population at Risk and Economic impact

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Pending Legislation

- Two Bills
  - HR 4650 and S 1836: National Levee Safety Program
  - Mirrors National Dam Safety Program
- Sets up National Levee Safety Program:
  - USACE Chairs
  - All Federal and Non-federal levees
  - Risk Based Assessments
  - Feedback to Congress on Priorities
- Intent: continuing and periodic assessment of flood protection projects like dams

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Levee Challenges

- Fixing the Levee Program:
  - Communicating Risks (beyond NFIP)
  - Rigors Needed
  - Substantial Out-Year Funding
- Life Risks and P&G
- Certifications vice Assessments
- Huge Data Gaps
  - Engineering Data
  - Consequence Data

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Discussion

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